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AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

Claim 1 (original): A semiconductor device, comprising:

- a well of a first conductive type formed in an upper layer of a substrate;
- a low-concentration layer of the first conductive type having a lower impurity concentration than the well, the low-concentration layer being formed in an extreme surface layer of a channel portion of the well;
- a high-k gate dielectric layer having a higher dielectric constant than a silicon oxide film, the high-k gate dielectric layer being formed on the low-concentration layer;
 - a gate electrode formed on the high-k gate dielectric layer; and source/drain regions of a second conductive type formed in an upper layer of the well, the source/drain regions sandwiching the low-concentration layer.

Claim 2 (original): A complementary semiconductor device having a n-type circuit region and a p-type circuit region, comprising:

- a p-type well formed in an upper layer of a substrate of the n-type circuit region;
- a n-type well formed in an upper layer of the substrate of the p-type circuit region;
- a p-type low-concentration layer formed in an extreme surface layer of a channel portion of the p-type well, the p-type low-concentration layer having a lower impurity concentration than the p-type well;
- a n-type low-concentration layer formed in an extreme surface layer of a channel portion of the n-type well, the n-type low-concentration having a lower impurity concentration than the n-type well;

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a high-k gate dielectric layer formed on the p-type and n-type low-concentration layers, the high-k gate dielectric layer having a higher dielectric constant than a silicon oxide film;

a gate electrode formed on the high-k gate dielectric layer;

n-type source/drain regions formed in an upper layer of the p-type well, the n-type source/drain regions sandwiching the p-type low-concentration layer; and

p-type source/drain regions formed in an upper layer of the n-type well, the p-type source/drain regions sandwiching the n-type low-concentration layer.

Claims 3-5 (canceled).